

**In th Claims:**

Pl ase amend the claims pursuant to 37 CFR 1.121 as follows.  
Please cancel claim 1 and 7 without prejudice, and replace with claim 10 and 11.

1. (Canceled)
2. (currently amended) The method ~~Method~~ according to claim 4 10, wherein the radon-free gas is air.
3. (currently amended) The method ~~Method~~ according to claim 4 10, further providing the step of discharging wherein the gas, after departing from the radon measuring equipment unit, ~~is discharged to~~ into the ambient surroundings.
4. (currently amended) The method ~~Method~~ according to claim 4 10, wherein the water and the measuring gas are ~~conducted in the~~ guided counter-current along the membrane.
5. (currently amended) The method ~~Method~~ according to claim 4 10, wherein the water and the measuring gas are ~~conducted~~ guided parallel to the membrane.
6. (currently amended) The method ~~Method~~ according to claim 4 10, wherein the gas zone is a diffusion hose.
7. (canceled)
8. A device ~~Device~~ according to claim 7 11, wherein the outlet of the radon measuring equipment unit opens out in the ambient air.
9. A device ~~Device~~ according to claim 7 11, wherein the gas zone is a diffusion hose.

10. (new) A method for continual detection of changes in concentration of radon gas dissolved in water, comprising the steps of:

- continuously pumping a continuous flow of radon-free gas through a zone including water-tight and a gas-permeable membrane and being surrounded by water;
- providing a radon measuring equipment unit for receiving the radon-free gas coming from the zone and from which the radon-free gas exits;
- continually measuring the changes in the concentration of the radon-free gas.

11. (new) A device for continual detection in changes of concentration of radon gas dissolved in water comprising:

- a gas source providing a continuous flow of gas;
- a gas zone having an inlet and an outlet and being immersed in flowing water;
- a radon measuring equipment unit having an inlet and an outlet;
- the gas source providing an continuous flow of gas being connected to the inlet of the gas zone; and
- the outlet of the gas zone being connected to the inlet of a radon measuring equipment unit from where the flow of gas exits.